import speech\_recognition as sr

from pydub import AudioSegment

import os

def convert\_audio\_to\_wav(input\_audio\_path):

if input\_audio\_path.endswith(".mp3"):

audio = AudioSegment.from\_mp3(input\_audio\_path)

wav\_path = input\_audio\_path.replace(".mp3", ".wav")

audio.export(wav\_path, format="wav")

return wav\_path

elif input\_audio\_path.endswith(".wav"):

return input\_audio\_path

else:

raise ValueError("Unsupported file format. Use .wav or .mp3")

def transcribe\_audio(audio\_path):

recognizer = sr.Recognizer()

with sr.AudioFile(audio\_path) as source:

audio\_data = recognizer.record(source)

try:

text = recognizer.recognize\_google(audio\_data)

return text

except sr.UnknownValueError:

return "Could not understand the audio."

except sr.RequestError as e:

return f"Error with the recognition service: {e}"

if \_\_name\_\_ == "\_\_main\_\_":

input\_file = "sample\_audio.mp3" # Replace with your audio file

wav\_file = convert\_audio\_to\_wav(input\_file)

transcription = transcribe\_audio(wav\_file)

print("Transcribed Text:\n", transcription)